

FEB 25 1954

Percent Mortality on Days Indicated

Cage No.	r-Dose	5		7		12		15		Per Cent <i>of</i> <i>Emergence</i>
		Males	Fe- males	Males	Fe- males	Males	Fe- males	Males	Fe- males	
1	2000	3	2	11	3	33	8	42	22	87
2	"	5	2	17	5	22	8	25	20	
3	"	2	3	9	6	14	6	25	23	
4	"	11	2	13	2	17	3	24	41	
5	2500	11	1	19	8	29	11	41	32	85
6	"	7	6	21	12	30	14	34	35	
7	"	2	3	10	6	18	11	25	51	
8	"	5	2	12	7	18	10	33	34	
9	4000	3	6	13	12	40	23	49	43	87
10	"	1	1	7	4	17	9	29	54	
11	"	4	2	13	5	22	18	31	24	
12	"	2	2	9	4	15	6	21	27	
13	5000	7	7	27	12	32	16	49	69	87
14	"	5	7	21	16	27	18	35	28	
15	"	4	4	17	8	21	13	31	47	
16	"	7	4	16	8	18	17	30	71	
Control		6	8	8	9	22	12	34	25	77

Percent Mortality on Days Indicated

Case No.	T-Dose	2		7		12		15		Per- Cent Mortality
		Males	Females	Males	Females	Males	Females	Males	Females	
1	2000	3	2	11	3	33	8	42	22	87
2	"	2	2	17	2	22	8	22	20	
3	"	2	3	9	6	14	6	22	23	
4	"	11	2	13	2	17	3	24	41	
5	2500	11	1	19	8	29	11	41	32	82
6	"	7	6	21	12	30	14	34	32	
7	"	2	3	10	6	18	11	22	21	
8	"	2	2	12	7	18	10	33	34	
9	4000	3	6	13	12	40	23	49	43	87
10	"	1	1	7	4	17	9	29	24	
11	"	4	2	13	2	22	18	31	24	
12	"	2	2	9	4	12	6	21	27	
13	5000	7	7	21	12	32	16	49	69	87
14	"	2	7	21	16	27	18	32	28	
15	"	4	4	17	8	21	13	31	47	
16	"	7	4	16	8	18	17	30	27	
Control		6	8	8	8	22	12	34	22	77

Initial Irradiation With New Source Egged 17 Days
After Treatment

No. of Cage	r-Dose	<u>Mating</u>		Number of Females Sur- viving to Oviposit	Number of egg Masses	Number of Larvae or Masses Hatch- ing		Per Cent of Eggs that Hatched
		Males	Females			Larvae	Masses	
1	2000	R	N	78	63	1000	-	8
2	"	R	N	80	50	600	-	6
3	"	N	R	77	49	-	47	96
4	"	N	R	59	37	-	35	95
5	2500	R	N	68	50	400	-	4
6	"	R	N	65	41	400	-	5
7	"	N	R	49	30	-	29	96
8	"	N	R	66	32	-	30	93
9	4000	R	N	57	31	100	-	1.6
10	"	R	N	46	25	50	-	1
11	"	N	R	76	30 $\frac{1}{2}$	-	15	60
12	"	N	R	73	32 $\frac{2}{2}$	-	13	48
13	5000	R	N	31	18	30	-	.08 ^{.83}
14	"	R	N	71	39	14	-	.17 ^{.39}
15	"	N	R	53	18 $\frac{4}{n}$ s	200	-	7
16	"	N	R	29	9 s	100	-	11
Control		N	N	75	67		67	100

1/ 11 egg masses less than half normal size

2/ 10 egg masses less than half normal size

